



Cold Climate Housing Research Center

CCHRC

Hybrid Micro Energy Program

Award No. 01163

Quarterly Report: October 1, 2013 to December 31, 2013

Per the terms of the Hybrid Micro-Energy Program (HMEP) grant agreement, the three priority renewable energy systems to be evaluated are:

A small scale biomass combined heat and power (CHP) system that can convert wood into heat and power for use in small scale loads including residences, small community facilities, and potentially small communities and/or neighborhoods.

This portion of the grant was completed with the submission of the final report on March 29th, 2012.

A ground source heat pump project that includes solar thermal collection to recharge the ground

The heat pump at Weller was off for the summer, but came on-line when school started in late August. Preliminary data shows the COP ranging from 4 to 4.5. Data collection continues on the heat pump system.

CCHRC has created a draft outline of the final deliverables for this project.

A combined solar photovoltaic (PV) and wind system integrated into an energy efficient load design.

This portion of the grant was completed with the submission of the final report on March 29th, 2012.